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| Application/Control No.      |   |      |       |      |      |     |
|------------------------------|---|------|-------|------|------|-----|
| Applications continue in the | A | plic | atior | /Con | trol | No. |

10/022,027

Examiner

Jason P. Riggleman

Applicant(s)/Patent under Reexamination

BARGER ET AL.

Art Unit

1746

| <b>√</b> | Rejected |
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| 11       | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| 1 | Interference |

| A | Appeal   |
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| Cla      | im       |          |          |  | [            | Date     |          |                | -        |          |   | Cla         | im       |                |              |          | _            |
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| Final    | Original | 3/28/07  |          |  |              |          |          |                |          |          |   | Final       | Original |                | •            |          |              |
| -        | 1        | -        |          |  | -            |          |          |                |          |          |   |             | 51       | $\neg$         |              |          | T            |
|          | 2        | -        |          |  |              | _        |          |                |          |          |   |             | 52       |                |              |          | Г            |
|          | 3        | -        |          |  |              |          |          |                |          |          |   |             | 53       |                |              |          |              |
|          | 4        | •        |          |  |              |          |          |                |          |          |   |             | 54       |                |              |          | L            |
|          | 5        | i        |          |  |              |          |          |                |          |          |   |             | 55       |                |              |          |              |
|          | 6        | •        |          |  |              |          |          |                |          |          |   |             | 56       |                |              |          | L            |
|          | 7        | ٠        |          | _  | L            |          | L        | L              |          |          |   |             | 57       |                |              |          | L            |
|          | 8        | Ŀ        |          |  |              | L        |          |                |          |          |   |             | 58       |                |              | _        | L            |
|          | 9        | -        |          |  | _            |          | L.       | _              | _        |          |   |             | 59       |                |              | Ш        | L            |
| ļ        | 10       | <u>-</u> | _        |  |              | _        | _        | _              | _        |          |   | L           | 60       |                |              |          | L            |
| ļ        | 11       | -        | _        | _  | <u> </u>     | <u> </u> |          | _              | _        | _        |   |             | 61       | Щ              |              |          | L            |
|          | 12       | <u> </u> | _        | _  |              | <u> </u> | _        | _              |          |          |   |             | 62       |                | _            |          | -            |
| -        | 13       | -        |          | _  | -            | -        | _        |                |          |          |   | <u> </u>    | 63       | $\vdash$       | _            | -        | ├-           |
|          | 14       | <u> </u> | <u> </u> | ├  | ⊢            | -        | ⊢        |                | -        | <u> </u> |   | <u> </u>    | 64<br>65 | $\vdash$       | <u> </u>     | -        | -            |
| -        | 15       | Ŀ        | -        |  | ├            | -        |          | ⊢              | -        | $\vdash$ |   | <del></del> | 66       | $\vdash$       | _            | ├        | ╁            |
| -        | 16<br>17 | ŀ        | -        | ├─   | -            |          | ⊢        | $\vdash$       | -        | _        |   | <u> </u>    | 67       | $\vdash$       |              | ├        | ╁╴           |
|          | 18       | -        |          | ┝  | ├            | _        |          | ├              | -        | ⊢        |   |             | 68       | $\vdash$       |              | ├─       | ╁            |
|          | 19       | -        | -        |  | ⊢            |          |          | ├-             | -        | -        |   |             | 69       | -              | <del> </del> | ┢        | H            |
| -        | 20       | -        | $\vdash$ | $\vdash$   | ╁            | ┢        | -        | <del> </del>   |          | -        | 1 |             | 70       | _              | ┢─           | $\vdash$ | H            |
|          | 21       | -        | ┢        |  | ┢╌           | -        | -        | $\vdash$       | ┢        | ┢        | 1 |             | 71       |                | $\vdash$     | ┪        | t            |
| 1        | 22       | =        | -        |  | 1            | ┢        | $\vdash$ | H              | -        | _        |   | _           | 72       | _              | $\vdash$     | $\vdash$ | ✝            |
| 2        | 23       | =        | $\vdash$ |  | ┢            | -        | ┢        | ┢              | _        | -        |   |             | 73       |                |              | $\vdash$ | ✝            |
|          | 24       | 1-       | ┢        | $\vdash$   | <del> </del> | $\vdash$ |          | $\vdash$       | 一        | _        | ĺ |             | 74       |                |              | $\vdash$ | ✝            |
| 3        | 25       | =        | 一        | ┢  | ╁            | $\vdash$ |          |                | $\vdash$ | -        |   |             | 75       |                |              | Т        | ✝            |
| 4        | 26       | =        |          | -  | $\vdash$     |          | Н        | $\vdash$       | _        | -        |   |             | 76       |                |              | T        | T            |
| 5        | 27       | =        |          | $\vdash$   | 1            |          | T        |                | Г        | Г        |   |             | 77       | 1              |              | Г        | T            |
| 6        | 28       | =        |          | Т  |              | Т        | Г        | $\vdash$       |          |          | 1 |             | 78       |                |              |          | Т            |
| 7        | 29       | =        |          | $\vdash$   | ऻ            |          | Г        |                |          |          | 1 |             | 79       |                |              |          | Г            |
| 8        | 30       | =        |          |  |              | Г        |          | Τ              |          |          | 1 |             | 80       | Π              |              |          | Т            |
|          | 31       |          |          |  |              | Г        |          | Ī              |          |          | ì |             | 81       | Г              |              |          | Т            |
|          | 32       |          | П        | Г  | Г            |          | Γ        |                |          |          |   |             | 82       |                |              |          | Ι            |
|          | 33       |          |          |  |              |          |          |                |          |          |   |             | 83       |                | _            | L        | L            |
|          | 34       |          |          |  |              |          |          |                |          |          |   |             | 84       | L              |              | 上        | L            |
|          | 35       | L        |          |  | _            | <u>L</u> | L        |                | L        | L        |   |             | 85       | ┖              | _            | 乚        | ╀            |
|          | 36       | <u> </u> | <u> </u> | _  | <u> </u>     | ļ        | <u> </u> | _              |          | _        | ļ | <u> </u>    | 86       | <u>L</u>       |              | ـ        | L            |
| <u> </u> | 37       | <u> </u> | <u> </u> | _  | ┞            | <u> </u> | <u> </u> | <del> </del> _ | <u> </u> | <u> </u> | Į |             | 87       | <u> </u>       | $\vdash$     | $\vdash$ | $\downarrow$ |
|          | 38       | ⊢        | <u> </u> | _  | ╙            | <u> </u> | <u> </u> | ↓_             |          | <u> </u> | 1 |             | 88       | <del> </del> _ | L            | ₩.       | ╀            |
|          | 39       | <u> </u> | _        | _  | <u> </u>     | <u> </u> | <u> </u> | ļ              | <u> </u> | <u> </u> | 1 | <u> </u>    | 89       | _              | <u> </u>     | ┞-       | ╀            |
| <u> </u> | 40       | ₩        | -        | _  | ┞-           | <u> </u> | ├-       | ├-             | ⊢        | ⊢        | - | <u> </u>    | 90       | ├              | ┡            | ├-       | ╀            |
|          | 41       | ₩        | 1        | <u> </u>   | ╄-           | <u> </u> | -        | ⊢              | _        | ├-       |   |             | 91       | ╀              | ├-           | ├-       | ╀            |
| <b> </b> | 42       | -        | <u> </u> | ├  | ├-           | ├-       | ┼        | ⊢              | ┡        | ├-       | ł | <u> </u>    | 92       | ├-             | -            | ⊢        | ╀            |
|          | 43       | -        | -        | -  | ╀            | -        | ├-       | +              | $\vdash$ | $\vdash$ | ł | -           | 93       | -              | -            | ├        | ╁            |
| -        | 44       | ┼─       | ╁        | ├  | ╁            | ├-       | ┼        | ╁              | $\vdash$ | $\vdash$ | 1 |             | 95       | ┼─             | ╁            | +-       | ╁            |
| $\vdash$ | 45       | $\vdash$ | ╁        | $\vdash$   | ╀            | $\vdash$ | $\vdash$ | $\vdash$       | $\vdash$ | -        | 1 | <b>—</b>    | 96       | -              | -            | +-       | ╁            |
| <u> </u> | 47       | -        | $\vdash$ | $\vdash$   | +            | $\vdash$ | $\vdash$ | +-             | $\vdash$ | -        | 1 |             | 97       | $\vdash$       | 1            | +-       | +            |
| $\vdash$ | 48       | +-       | $\vdash$ | <del>                                     </del> | +-           | $\vdash$ | $\vdash$ | +-             | 1        |          | 1 | -           | 98       | H              | $\vdash$     | +        | +            |
| -        | 49       | +        | ╁        | +-   | +-           | +-       | +-       | $\vdash$       | H        | $\vdash$ | 1 | <b>—</b>    | 99       | 1              | $\vdash$     | +        | +            |
| _        | 50       | $t^-$    | 1-       | $t^-$  | +            | †        | 1        | +-             | $\vdash$ | T        | 1 | <b>-</b>    | 100      | 1              | T            | $t^-$    | t            |
| Ь        | 1 55     | _        | L        | L  | 1_           | 1        | т—       | _              | -        |          | , |             | , , 50   | _              |              |          | _            |

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|          |          | П        |          |          | Ť  | 一        | П  | $\neg$       |              |          |
| Final    | Original | ,        |          |          |  |          |  |              |              |          |
|          | 51<br>52 |          |          |          |  |          |  |              |              |          |
|          | 52       |          |          |          |  |          |  |              |              |          |
|          | 53       | $\neg$   |          |          |  |          |  |              |              |          |
|          | 54       | $\neg$   |          |          |  |          |  |              |              |          |
|          | 55       |          |          |          |  |          |  |              | $\neg$       |          |
|          | 56       |          |          |          |  |          |  |              |              |          |
|          | 57       |          |          |          |  |          |  |              |              |          |
|          | 58       |          |          |          |  |          |  |              |              |          |
|          | 59       |          |          |          |  |          |  |              |              |          |
|          | 60       |          |          |          |  |          |  |              |              |          |
|          | 61       |          |          |          |  |          |  |              |              |          |
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|          | 63       | $\Box$   |          |          | $\Box$   | $\Box$   | Ш  |              |              |          |
| L        | 64       | _        |          | L.       |  |          |  |              |              |          |
|          | 65       | _        |          | _        | Ш  |          | Щ  |              | -            |          |
| <u> </u> | 66       |          |          |          |  |          |  |              | _            |          |
|          | 67       |          |          | _        |  |          |  |              |              |          |
|          | 68       |          |          | ļ        |  |          |  |              |              |          |
| -        | 69       | _        |          | H        | $\vdash$   |          | Щ  |              |              |          |
| -        | 70       | -        |          |          |  | _        |  |              |              |          |
|          | 71<br>72 | -1       |          | H        | _  | _        | -  |              |              |          |
|          | 73       | -        | _        | ⊢        | -  | _        |  |              |              | _        |
|          | 74       |          | _        | $\vdash$ | $\vdash$   | -        |  |              |              |          |
|          | 75       |          |          | H        | ┢  |          |  |              |              |          |
| <b>-</b> | 76       |          |          |          | _  |          |  |              |              |          |
|          | 76<br>77 |          |          |          | _  |          |  |              |              |          |
|          | 78       |          |          |          |  |          |  |              |              |          |
|          | 79       |          |          |          |  |          |  |              |              |          |
|          | 80       |          |          |          |  |          |  |              |              |          |
|          | 81       |          |          |          |  |          |  |              |              |          |
|          | 82       |          |          |          |  |          |  |              |              | Ĺ        |
|          | 83       | Ш        |          | _        | <u> </u>   | L        | <u> </u>   |              | L_           | L        |
|          | 84       |          |          | <u>_</u> |  |          | <u> </u>   | L            |              | _        |
|          | 85       |          |          | _        | <u> </u>   | L.       | <u> </u>   | <u> </u>     | L            | _        |
|          | 86       | H        |          | ⊢        | <del> </del>                                     | <u> </u> | <del> </del>                                     | <u> </u>     | <u> </u>     | _        |
|          | 87       |          | _        | -        | $\vdash$   | $\vdash$ | <del> </del>                                     | <u> </u>     | <u> </u>     | $\vdash$ |
|          | 88<br>89 | -        | -        | ├        | ├-   |          | -  | <del> </del> | <del> </del> |          |
| -        | 90       | $\vdash$ | -        | +-       | -  | -        | $\vdash$   | $\vdash$     | <del> </del> | $\vdash$ |
|          | 91       | $\vdash$ | -        | ╁        | <del> </del>                                     | $\vdash$ | $\vdash$   | ┝            | $\vdash$     | $\vdash$ |
|          | 92       | $\vdash$ | -        | $\vdash$ | 1  | $\vdash$ | -  | $\vdash$     | $\vdash$     | $\vdash$ |
|          | 93       | $\vdash$ | _        | T        | <del>                                     </del> | $\vdash$ | $\vdash$   | _            |              |          |
|          | 94       | $\vdash$ | $\vdash$ | T        | Т  | $\vdash$ | <del>                                     </del> |              | <u> </u>     | T        |
| -        | 95       | $\Box$   |          | $\Box$   | 1  |          |  |              |              | Γ        |
|          | 96       |          |          |          |  |          |  |              |              | Γ        |
|          | 97       |          |          |          |  |          |  |              |              |          |
|          | 98       |          |          |          |  |          |  |              |              |          |
|          | 99       |          |          |          |  |          |  |              |              |          |
|          | 100      | I _      | I        |          |  |          |  |              | ı _          |          |

| Cla          | aim                             | Date     |          |  |          |          |          |          |          |              |
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|              |                                 |          |          |  |          |          |          |          |          | $\neg$       |
| Final        | Original                        |          |          |  |          |          |          |          |          |              |
|              | 101                             |          |          |  |          |          |          |          |          |              |
|              | 102<br>103                      |          |          | _  |          |          |          |          |          | _            |
|              | 103                             |          |          |  |          |          |          |          |          | $\sqcup$     |
|              | 104                             |          | $\perp$  |  | _        | _        | _        |          |          | -            |
|              | 104<br>105<br>106               | Н        |          |  | 4        |          | -        |          |          | $\dashv$     |
|              | 106                             |          |          |  | _        |          | _        | _        |          | $\dashv$     |
|              | 107                             | Н        | -        |  |          | $\vdash$ | -        |          | _        | $\dashv$     |
|              | 100                             |          | _        |  | _        | _        |          |          | _        | -            |
|              | 109<br>110<br>111               |          |          |  |          |          |          |          |          | $\dashv$     |
|              | 111                             | П        |          |  |          |          |          |          |          | $\neg$       |
|              | 112                             |          |          |  |          |          |          |          |          |              |
|              | 113                             |          |          |  | -        |          |          |          |          |              |
|              | 114                             |          |          |  |          |          |          |          |          |              |
|              | 115                             |          |          |  |          |          |          |          |          |              |
|              | 113<br>114<br>115<br>116<br>117 |          |          |  |          |          |          |          |          |              |
|              | 117                             |          |          |  |          |          |          |          |          | $\vdash$     |
|              | 118<br>119                      | _        |          | -  |          | ⊢        |          | _        |          | Н            |
|              | 120                             | -        | -        | -  | _        | <u> </u> |          |          | H        | Н            |
|              | 120                             | H        | $\vdash$ |  |          | -        | -        | $\vdash$ | $\vdash$ | Н            |
| <del> </del> | 121<br>122<br>123               | H        | -        | <u> </u>   | _        | -        | -        | _        | $\vdash$ | Н            |
|              | 123                             | _        | $\vdash$ | $\vdash$   | $\vdash$ | -        | -        | Ι-       |          | Н            |
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|              | 124<br>125                      |          |          |  |          |          |          | Г        |          |              |
|              | 126                             |          |          |  |          |          |          |          |          |              |
|              | 127                             |          |          |  |          |          |          |          |          | L.           |
|              | 128                             |          |          | _  |          |          |          |          | _        |              |
|              | 126<br>127<br>128<br>129<br>130 | L        | _        | <u> </u>   | L        | <u> </u> | ļ_       | _        | _        |              |
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|              | 131                             | <b>!</b> | <u> </u> | ├  | _        |          | _        | H        | -        | -            |
|              | 132                             | ├-       | -        | ├-   | _        | -        | -        | -        | -        |              |
| _            | 132<br>133<br>134               | $\vdash$ | ┝        | -  | -        | ⊢        | ├        | -        | $\vdash$ | H            |
| <u> </u>     | 135                             |          | +-       | $\vdash$   | $\vdash$ | -        | $\vdash$ | $\vdash$ | -        |              |
| <b>—</b>     | 135<br>136                      | $\vdash$ | Т        | <del>                                     </del> | -        | T        | Г        |          | -        | Г            |
|              | 137                             | Г        | T        |  | Γ        | Г        | 1        | Г        |          |              |
|              | 138                             |          |          |  |          |          |          |          |          |              |
|              | 139                             |          |          |  |          |          |          |          | 匚        |              |
|              | 140                             | Ĺ        | L        | _  | L        | L        | L.       | L        | _        | <u> </u>     |
|              | 141                             | <u> </u> | L        | <u> </u>   | _        | <u> </u> | L_       | <u> </u> | <u> </u> | $oxed{oxed}$ |
| <u> </u>     | 142                             | ├-       | L        | -  |          | Ь.       | ⊢        | _        | <u> </u> | $\vdash$     |
| <u> </u>     | 143                             | ├-       | <b>L</b> | <del> </del>                                     | _        | $\vdash$ | ├-       | L        | ⊢        | $\vdash$     |
|              | 144                             | ├        | -        | -  | -        | ⊢        | -        | ├-       | ├-       | ⊢            |
| ├            | 145                             | +-       | ├        | ⊢  | $\vdash$ | +        | ├        | $\vdash$ | $\vdash$ | $\vdash$     |
| ├            | 146                             | ╁        | ⊢        | $\vdash$   | -        | ╁        | ╁        | $\vdash$ | H        | -            |
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| -            | 149                             | +-       | $\vdash$ | 1  | $\vdash$ | t        | $\vdash$ | $\vdash$ | $\vdash$ | t            |
| <b>-</b>     | 150                             | 1        | $\vdash$ | 1  | $\vdash$ | 1        | T        | t        | $t^-$    | $\vdash$     |
|              | 1.55                            | 1        | 1        |  | ┺        | ٠        |          | _        |          |              |